

Abstract

A current collector effective for reductions in weight and thickness. The current collector produced by forming a conductive layer having a surface electric resistance not higher than $1.3 \Omega/\text{cm}$ on the surface of a resin film and then forming an electrolytic plating layer having a thickness of at least $0.3 \mu\text{m}$ per one side, characterized in that the surface electric resistance is not higher than $40 \text{ m}\Omega/\text{cm}$ after electrolytic plating and following expression is satisfied; $Y_1+Y_2+Y_3 \leq 0.8 \times ((X_1+X_2+X_3) \times Y_3/X_3)$ where, X_1 : thickness of resin film (μm), X_2 : thickness of conductive layer (μm), X_3 : thickness of plating layer (μm), Y_1 : weight of resin film (mg/cm^2), Y_2 : weight of conductive layer (mg/cm^2), and Y_3 : weight of plating layer (mg/cm^2).